

What is claimed is:

1. A lens shape measuring apparatus, comprising:
  - a lens fixing jig installed in a lens to be processed to clamp the lens;
  - 5 a lens rotation shaft for clamping and rotating the lens to be processed;
  - a measuring element abutted on a refracting surface of the lens clamped by the lens rotation shaft;
  - a measuring unit for measuring a moving distance of the
  - 10 measuring element; and
  - arithmetic control means for identifying a shape of the lens fixing jig based on the moving distance of the measuring element measured by the measuring unit.
2. A lens shape measuring apparatus according to claim 1, wherein
- 15 said lens rotation shaft is swung to be brought close to/separated from said measuring element.
3. A lens shape measuring apparatus according to claim 1, wherein said measuring element includes a pair of feelers to be brought into contact with the lens to be processed.
- 20 4. A lens shape measuring apparatus according to claim 1, wherein said measuring unit includes a measuring element moving amount detecting mechanism.
5. A lens shape measuring apparatus according to claim 1, wherein
- 25 said arithmetic control means controls said lens rotation shaft according to a measuring element moving amount detecting signal of said measuring unit.
6. A lens shape measuring apparatus according to claim 1, wherein

said arithmetic control means measures a size of an outer shape of said lens fixing jig based on a signal from said measuring unit.

7. A lens shape measuring apparatus, comprising:

5 a lens fixing jig installed in a lens to be processed to clamp the lens;

a lens rotation shaft for clamping and rotating the lens to be processed;

a measuring element abutted on a refracting surface of the lens clamped by the lens rotation shaft;

10 a measuring unit for measuring a moving distance of the measuring element in a direction roughly parallel to the lens rotation shaft; and

arithmetic control means for moving a tip of the measuring element relatively in the direction roughly parallel to the lens rotation shaft, measuring a distance from a measuring reference position of the  
15 measuring element to an abutting position of the same by the measuring unit, and identifying a shape of the lens fixing jig based on a result of the measurement.

8. A lens shape measuring apparatus, comprising:

20 a lens fixing jig installed in a lens to be processed to clamp the lens;

a lens rotation shaft for clamping and rotating the lens to be processed;

25 a measuring element abutted on a refracting surface of the lens clamped by the lens rotation shaft;

measuring element rotating means for controlling rotation of the measuring element around a rotation shaft roughly parallel to the

lens rotation shaft;

a measuring unit for measuring a moving distance of the measuring element in a direction roughly parallel to the lens rotation shaft; and

- 5 arithmetic control means for rotating a tip of the measuring element around the lens rotation shaft, and identifying a shape of the lens fixing jig based on a distance of the abutted position of the tip of the measuring element from a measuring element reference position.